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silicon.

21. (Original): The waveguide of claim 18, wherein the first optical channel and the second optical channel are on opposite sides of the waveguide.

REMARKS

35 U.S.C. § 102 Rejection

Craighead et al.

The Examiner rejected claims 15-20 under 35 U.S.C. 102(e) as being anticipated by the patent to Craighead et al. (6,438,279).

The patent to Craighead does not teach or disclose a waveguide having a first optical channel within the waveguide, a first lithographically-defined marking on a surface of the waveguide indicative of the first optical channel within the waveguide "*wherein the first lithographically-defined marking is operative to assist in insertion of an optical fiber within the first optical channel*" as recited in claim 15 as amended herein. Furthermore, the patent to Craighead does not teach or disclose a waveguide having a second optical channel within the waveguide, and a second lithographically-defined marking on the surface of the waveguide indicative of the second optical channel within the waveguide, "*wherein the second lithographically-defined marking is operative to assist in insertion of an optical fiber within the second optical channel*" as recited in claim 16 as amended herein. Support for the amendments to claims 15 and 16 may be found throughout the specification, and at least in FIG. 4 and FIG. 5 and the descriptions thereof. Since the patent to Craighead does not teach or disclose using markings to assist in insertion of an optical fiber in an optical channel, Craighead does not anticipate claims 15-21 as amended herein, so the rejection should be withdrawn.

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Allowable Subject Matter

The Examiner objected to claim 21 as being dependent on a rejected base claim, but that claim 21 would be allowable if rewritten in independent format including all of the limitations of the base claim and any intervening claims. It is believed that since claim 15 as amended herein is in a condition for allowance, claim 21 is likewise in a condition for allowance, and no amendment is necessary. It is therefore believed that the objection should be withdrawn.

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Conclusion

In light of the foregoing, reconsideration and allowance of the claims is hereby earnestly requested.

Invitation for a Telephone Interview

The Examiner is invited to call the undersigned attorney, Kenneth J. Cool, at (720) 227-9445 if there remains any issue with allowance.

Respectfully submitted,
INTEL CORPORATION

Date: 12/03/04
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